

1689 & 1689 M RLC Testers

p. 1

Fast and Accurate RLC Measurements

The GenRad 1689 Precision Digibridge RLC Tester gives you the best performance for your most demanding applications whether they be production test, incoming inspection, component design and evaluation, process monitoring or dielectric measurement. It is a versatile, full function microprocessor-based passive component tester that's available in either bench top (1689) or rack mountable, high speed (1689M) models.

USES:

- Meters used for impedance measurements (inductance, capacitance, and resistance) to characterize the performance of a variety of electrical components and materials.
- Test Resistors, Capacitors, Inductors or any type of passive component
- Testing Electronic Components
- Calibration Lab

Features

- 0.02% Accuracy for RLC
- 0.0001 Accuracy for DQ measurements.
- Programmable test voltages from 5mV to 1.275Vrms
- Up to 30 or 50 measurements per second respectively, with high speed option

- Wide range of measurement parameters
- IEEE-488 Bus and Component Handler Option
- Programmable test frequencies from 12Hz to 100kHz for maximum testing versatility.
- A full, five-digit LED display for RLC; four-digit readout for D and Q



Description

The 1689 is a sophisticated, microprocessor controlled tester that brings new levels of flexibility, simplicity and accuracy to RLC measurement. It is a high performance automated tester with a range of programmable test frequencies and test voltages, as well as automatic limit comparison, automatic parameter selection, remote programmability, automatic binning, and automatic zeroing.

The 1689/1689M provides a powerful combination of features designed to maximize productivity in all testing environments.

- 0.02% Accuracy for RLC measurements.
- 0.0001 for D and Q measurements.
- Programmable test frequencies from 12Hz to 100kHz for maximum testing versatility.
- Programmable test voltages from 5mV to 1.275V permits testing at exact manufacturer- specified voltage levels.
- Full range keyboard-selectable test speeds: 1689-Variable up to 30 measurements per second with high speed option; 1689M-Variable up to 50 measurements per second with high speed option, complements automatic handling equipment to maximize throughput.
- 2 selectable measurement modes: Continuous and Triggered with averaging available in each ensures measurement flexibility.
- Optional IEEE-488 Bus and Handler Interface enable remote programming and allow the addition of a component handler to optimize throughput.
- Wide choice of measurement parameters allow you to work with familiar units.
- A full, five-digit LED display for RLC measurements and a four-digit readout for D and Q testing, simultaneously display both test results for each measurement, automatically.
- Guarded Kelvin measurement techniques protect measurement integrity.
- Automatic limit comparison and binning ensure fast, mistake-proof sorting of components.



